

Nicolas Pollet

List of Publications by Year in descending order

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69
papers

4,781
citations

201674

27
h-index

106344

65
g-index

74
all docs

74
docs citations

74
times ranked

7460
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Evaluation of time profile reconstruction from complex two-color microarray designs. BMC Bioinformatics, 2008, 9, 1. | 2.6 | 875 |
| 2 | The Genome of the Western Clawed Frog <i>Xenopus tropicalis</i> . Science, 2010, 328, 633-636. | 12.6 | 708 |
| 3 | Synexpression groups in eukaryotes. Nature, 1999, 402, 483-487. | 27.8 | 386 |
| 4 | Comparison of T7E1 and Surveyor Mismatch Cleavage Assays to Detect Mutations Triggered by Engineered Nucleases. G3: Genes, Genomes, Genetics, 2015, 5, 407-415. | 1.8 | 260 |
| 5 | Gene expression screening in <i>Xenopus</i> identifies molecular pathways, predicts gene function and provides a global view of embryonic patterning. Mechanisms of Development, 1998, 77, 95-141. | 1.7 | 198 |
| 6 | Mutations in JAGGED1 gene are predominantly sporadic in Alagille syndrome. Gastroenterology, 1999, 116, 1141-1148. | 1.3 | 178 |
| 7 | Nrarp is a novel intracellular component of the Notch signaling pathway. Genes and Development, 2001, 15, 1885-1899. | 5.9 | 153 |
| 8 | The transmembrane protein XFLRT3 forms a complex with FGF receptors and promotes FGF signalling. Nature Cell Biology, 2004, 6, 38-44. | 10.3 | 149 |
| 9 | Microbiota and Mucosal Immunity in Amphibians. Frontiers in Immunology, 2015, 6, 111. | 4.8 | 128 |
| 10 | Periodic repression of Notch pathway genes governs the segmentation of <i>Xenopus</i> embryos. Genes and Development, 1999, 13, 1486-1499. | 5.9 | 127 |
| 11 | Xenbase: a <i>Xenopus</i> biology and genomics resource. Nucleic Acids Research, 2007, 36, D761-D767. | 14.5 | 116 |
| 12 | Increased XRALDH2 activity has a posteriorizing effect on the central nervous system of <i>Xenopus</i> embryos. Mechanisms of Development, 2001, 101, 91-103. | 1.7 | 112 |
| 13 | Minimum information specification for in situ hybridization and immunohistochemistry experiments (MISFISHIE). Nature Biotechnology, 2008, 26, 305-312. | 17.5 | 111 |
| 14 | Pax3 and Zic1 trigger the early neural crest gene regulatory network by the direct activation of multiple key neural crest specifiers. Developmental Biology, 2014, 386, 461-472. | 2.0 | 111 |
| 15 | Human and other mammalian genomes contain transposons of the mariner family. FEBS Letters, 1995, 368, 541-546. | 2.8 | 81 |
| 16 | Generation of transgenic <i>Xenopus laevis</i> using the Sleeping Beauty transposon system. Transgenic Research, 2006, 15, 751-760. | 2.4 | 66 |
| 17 | Cyclic expression of <i>esr9</i> gene in <i>Xenopus</i> presomitic mesoderm. Differentiation, 2003, 71, 83-89. | 1.9 | 62 |
| 18 | An atlas of differential gene expression during early <i>Xenopus</i> embryogenesis. Mechanisms of Development, 2005, 122, 365-439. | 1.7 | 60 |

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|----|---|------|-----------|
| 19 | Compound toxicity screening and structure-activity relationship modeling in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2012, 109, 846-850. | 3.3 | 50 |
| 20 | Identification of post-transcriptionally regulated <i>Xenopus tropicalis</i> maternal mRNAs by microarray. <i>Nucleic Acids Research</i> , 2006, 34, 986-995. | 14.5 | 48 |
| 21 | An ontology for <i>Xenopus</i> anatomy and development. <i>BMC Developmental Biology</i> , 2008, 8, 92. | 2.1 | 48 |
| 22 | Transgenesis procedures in <i>Xenopus</i> . <i>Biology of the Cell</i> , 2008, 100, 503-529. | 2.0 | 48 |
| 23 | Identification of CUG-BP1/EDEN-BP target mRNAs in <i>Xenopus tropicalis</i> . <i>Nucleic Acids Research</i> , 2008, 36, 1861-1870. | 14.5 | 45 |
| 24 | Reliability of gene expression ratios for cDNA microarrays in multiconditional experiments with a reference design. <i>Nucleic Acids Research</i> , 2004, 32, 29e-29. | 14.5 | 30 |
| 25 | Whispering to the Deaf: Communication by a Frog without External Vocal Sac or Tympanum in Noisy Environments. <i>PLoS ONE</i> , 2011, 6, e22080. | 2.5 | 30 |
| 26 | Validation of novel reference genes for RT-qPCR studies of gene expression in <i>Xenopus tropicalis</i> during embryonic and post-embryonic development. <i>Developmental Dynamics</i> , 2013, 242, 709-717. | 1.8 | 30 |
| 27 | Cloning and Characterization of Plx2 and Plx3, Two Additional Polo-like Kinases from <i>Xenopus laevis</i> . <i>Experimental Cell Research</i> , 2001, 270, 78-87. | 2.6 | 29 |
| 28 | Characterization of multiple lineages of Tc1-like elements within the genome of the amphibian <i>Xenopus tropicalis</i> . <i>Gene</i> , 2005, 349, 187-196. | 2.2 | 29 |
| 29 | Characterization of a novel <i>Xenopus tropicalis</i> cell line as a model for in vitro studies. <i>Genesis</i> , 2012, 50, 316-324. | 1.6 | 28 |
| 30 | How minute sooglossid frogs hear without a middle ear. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15360-15364. | 7.1 | 26 |
| 31 | ncRNAclassifier: a tool for detection and classification of transposable element sequences in RNA hairpins. <i>BMC Bioinformatics</i> , 2012, 13, 246. | 2.6 | 25 |
| 32 | A large scale screen for neural stem cell markers in <i>Xenopus</i> retina. <i>Developmental Neurobiology</i> , 2012, 72, 491-506. | 3.0 | 25 |
| 33 | Identification of the pre-T-cell receptor β chain in nonmammalian vertebrates challenges the structure-function of the molecule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19991-19996. | 7.1 | 23 |
| 34 | Implication of thyroid hormone signaling in neural crest cells migration: Evidence from thyroid hormone receptor beta knockdown and NH3 antagonist studies. <i>Molecular and Cellular Endocrinology</i> , 2017, 439, 233-246. | 3.2 | 23 |
| 35 | Axeldb: a <i>Xenopus laevis</i> database focusing on gene expression. <i>Nucleic Acids Research</i> , 2000, 28, 139-140. | 14.5 | 22 |
| 36 | Reduced levels of survival motor neuron protein leads to aberrant motoneuron growth in a <i>Xenopus</i> model of muscular atrophy. <i>Neurogenetics</i> , 2010, 11, 27-40. | 1.4 | 22 |

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|----|--|-----|-----------|
| 37 | A new tree-frog genus and species from Ivory Coast, West Africa (Amphibia: Anura: Hyperoliidae). <i>Zootaxa</i> , 2009, 2044, 23-45. | 0.5 | 21 |
| 38 | Construction of a 3.7-Mb Physical Map within Human Chromosome 20p12 Ordering 18 Markers in the Alagille Syndrome Locus. <i>Genomics</i> , 1995, 27, 467-474. | 2.9 | 19 |
| 39 | Database of queryable gene expression patterns for <i>Xenopus</i> . <i>Developmental Dynamics</i> , 2009, 238, 1379-1388. | 1.8 | 19 |
| 40 | The mariner Transposons Belonging to the irritans Subfamily Were Maintained in Chordate Genomes by Vertical Transmission. <i>Journal of Molecular Evolution</i> , 2006, 62, 53-65. | 1.8 | 18 |
| 41 | Characterization of a <i>Xenopus tropicalis</i> Endogenous Retrovirus with Developmental and Stress-Dependent Expression. <i>Journal of Virology</i> , 2011, 85, 2167-2179. | 3.4 | 15 |
| 42 | Insights on genome size evolution from a miniature inverted repeat transposon driving a satellite DNA. <i>Molecular Phylogenetics and Evolution</i> , 2014, 81, 1-9. | 2.7 | 15 |
| 43 | Nuclear Importation of Mariner Transposases among Eukaryotes: Motif Requirements and Homo-Protein Interactions. <i>PLoS ONE</i> , 2011, 6, e23693. | 2.5 | 15 |
| 44 | Exploring nervous system transcriptomes during embryogenesis and metamorphosis in <i>Xenopus tropicalis</i> using EST analysis. <i>BMC Genomics</i> , 2007, 8, 118. | 2.8 | 14 |
| 45 | Evading the annotation bottleneck: using sequence similarity to search non-sequence gene data. <i>BMC Bioinformatics</i> , 2008, 9, 442. | 2.6 | 14 |
| 46 | The olig family: phylogenetic analysis and early gene expression in <i>Xenopus tropicalis</i> . <i>Development Genes and Evolution</i> , 2007, 217, 485-497. | 0.9 | 13 |
| 47 | Construction of an Integrated Physical and Gene Map of Human Chromosome 20p12 Providing Candidate Genes for Alagille Syndrome. <i>Genomics</i> , 1997, 42, 489-498. | 2.9 | 11 |
| 48 | In situ analysis of gene expression in <i>Xenopus</i> embryos. <i>Comptes Rendus - Biologies</i> , 2003, 326, 1011-1017. | 0.2 | 11 |
| 49 | Features of the mammal mar1 transposons in the human, sheep, cow, and mouse genomes and implications for their evolution. <i>Mammalian Genome</i> , 2000, 11, 1111-1116. | 2.2 | 10 |
| 50 | Expression Profiling by Systematic High-Throughput In Situ Hybridization to Whole-Mount Embryos. , 2001, 175, 309-321. | | 10 |
| 51 | Generation of BAC Transgenic Tadpoles Enabling Live Imaging of Motoneurons by Using the Urotensin II-Related Peptide (ust2b) Gene as a Driver. <i>PLoS ONE</i> , 2015, 10, e0117370. | 2.5 | 10 |
| 52 | Post-transcriptional regulation in <i>Xenopus</i> embryos: role and targets of EDEN-BP. <i>Biochemical Society Transactions</i> , 2005, 33, 1541. | 3.4 | 9 |
| 53 | TBid mediated activation of the mitochondrial death pathway leads to genetic ablation of the lens in <i>Xenopus laevis</i> . <i>Genesis</i> , 2007, 45, 1-10. | 1.6 | 9 |
| 54 | Synchrotron analysis of a "mummified" salamander (Vertebrata: Caudata) from the Eocene of Quercy, France. <i>Zoological Journal of the Linnean Society</i> , 2016, 177, 147-164. | 2.3 | 9 |

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|----|--|-----|-----------|
| 55 | A new method for long-read sequencing of animal mitochondrial genomes: application to the identification of equine mitochondrial DNA variants. <i>BMC Genomics</i> , 2020, 21, 785. | 2.8 | 9 |
| 56 | Tissue-specific expression of Sarcoplasmic/Endoplasmic Reticulum Calcium ATPases (ATP2A/SERCA) 1, 2, 3 during <i>Xenopus laevis</i> development. <i>Gene Expression Patterns</i> , 2011, 11, 122-128. | 0.8 | 8 |
| 57 | Deleted Chromosome 20 from a patient with Alagille syndrome isolated in a cell hybrid through leucine transport selection: study of three candidate genes. <i>Mammalian Genome</i> , 1994, 5, 663-669. | 2.2 | 7 |
| 58 | Ancient Adaptive Lateral Gene Transfers in the Symbiotic Opalina "Blastocystis Stramenopile Lineage. <i>Molecular Biology and Evolution</i> , 2020, 37, 651-659. | 8.9 | 7 |
| 59 | Evolutionary Dynamics of the Repetitive DNA in the Karyotypes of <i>Pipa carvalhoi</i> and <i>Xenopus tropicalis</i> (Anura, Pipidae). <i>Frontiers in Genetics</i> , 2020, 11, 637. | 2.3 | 7 |
| 60 | Gut microbial ecology of <i>Xenopus</i> tadpoles across life stages. , 0, 1, . | | 7 |
| 61 | Irradiation damage to frog inner ear during synchrotron radiation tomographic investigation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 170, 37-41. | 1.7 | 5 |
| 62 | Expression of immune genes during metamorphosis of <i>Xenopus</i> : a survey. <i>Frontiers in Bioscience - Landmark</i> , 2010, 15, 348. | 3.0 | 5 |
| 63 | Databases of Gene Expression in <i>Xenopus</i> Development. <i>Methods in Molecular Biology</i> , 2012, 917, 319-345. | 0.9 | 5 |
| 64 | Properties of the various Botmar1 transcripts in imagoes of the bumble bee, <i>Bombus terrestris</i> (Hymenoptera: Apidae). <i>Gene</i> , 2007, 390, 52-66. | 2.2 | 4 |
| 65 | Identification of novel cis-regulatory elements of <i>Eya1</i> in <i>Xenopus laevis</i> using BAC recombineering. <i>Scientific Reports</i> , 2017, 7, 15033. | 3.3 | 2 |
| 66 | Construction and characterization of a BAC library for functional genomics in <i>Xenopus tropicalis</i> . <i>Developmental Biology</i> , 2017, 426, 255-260. | 2.0 | 2 |
| 67 | A New Method for Sequencing the Mitochondrial Genome by Using Long Read Technology. <i>Methods in Molecular Biology</i> , 2021, 2277, 331-343. | 0.9 | 1 |
| 68 | Transcriptomic analysis of the trade-off between endurance and burst-performance in the frog <i>Xenopus allofraseri</i> . <i>BMC Genomics</i> , 2021, 22, 204. | 2.8 | 1 |
| 69 | Large Scale Expression Screening Identifies Molecular Pathways and Predicts Gene function. , 2002, , 27-35. | | 0 |